



02-27-06

ITW

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TO: **U.S. Patent and Trademark Office**  
**Central Fax No.: 571-273-8300**

DATE: February 24, 2006

FROM: Michael R. Schacht

PAGES: 6 (cover sheet included)

Re: **U.S. Patent Application Serial No. 10/761537**  
**Filed: 01/21/2004**  
**MOTION CONTROL SYSTEMS**  
**Applicant: Brown et al.**  
**Attorney Ref.: P214419**

Attached for filing are the following:

1. Supplemental Information Disclosure Statement (3 pages)
2. PTO/SB/08A (1 page)
3. PTO/SB/08B (1 page)

The four non-patent literature references noted in the Supplemental IDS are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown above. Express Mail mail label no.: EL 993505405.

Respectfully Submitted,

By Michael R. Schacht  
Michael R. Schacht,  
Reg. No. 33,550; Cust. No. 30662

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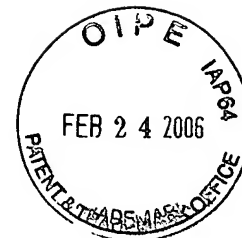
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TO: U.S. Patent and Trademark Office  
Central Fax No.: 571-273-8360

DATE: February 24, 2006

FROM: Michael R. Schacht

PAGES: 6 (cover sheet included)

Re: U.S. Patent Application Serial No. 10761537  
Filed: 01/21/2004  
INOTON CONTROL SYSTEMS  
Applicant: Brown et al.  
Attorney Ref.: P214419

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Respectfully Submitted,

By: Michael R. Schacht  
Michael R. Schacht,  
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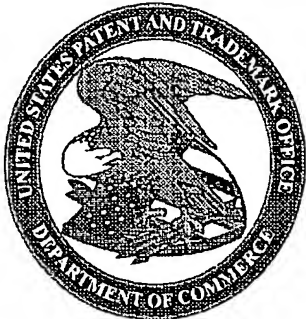
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TO: U.S. Patent and Trademark Office  
Examiner Zolla E. Cabrera  
Fax No.: 571-273-3738

DATE: February 24, 2006

FROM: Michael R. Schacht

PAGES: 6 (cover sheet included)

Re: U.S. Patent Application Serial No. 10/781637  
Filed: 01/21/2004  
MOTION CONTROL SYSTEMS  
Applicant: Brown et al.  
Attorney Ref.: P214419

Attached are copies of the following:

1. Supplemental Information Disclosure Statement (3 pages)
2. PTO/SB/08A (1 page)
3. PTO/SB/08B (1 page)

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Respectfully Submitted,

By: *Michael R. Schacht*  
Michael R. Schacht,  
Reg. No. 33,550; Cust. No. 30982

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HF: Host Fax	HR: Host Receive	FM: Forward Mailbox Doc.	WS: Waiting Send

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: BROWN ET AL.

Serial No.: 10/761,537

Filing Date: 1/21/2004

Title: MOTION CONTROL SYSTEMS



)  
) Attorneys' Ref. P214419  
)  
) Art Unit: 2188  
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)  
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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

**VIA FACSIMILE & EXPRESS MAIL**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Sir:

In accordance with 37 CFR §1.56, the Applicant respectfully submits this Supplemental Information Disclosure Statement to call to the attention of the Examiner the references listed on the attached Forms PTO/SB/08A and PTO/SB/08B for consideration in the prosecution of the above-referenced application for U.S. patent.

Copies of the non-patent literature documents cited in this Supplemental Information Disclosure Statement are enclosed. Citation of a reference in this Supplemental Information Disclosure Statement is not an admission that the reference is prior art to the present invention.

It is believed that no fee is due at this time to maintain the application in full force and effect, however if any such fee is due please charge this to Deposit Account No. 502099.

**REMARKS**

**I. U.S. PATENTS**

U.S. Patent No. 5,291,416 to Hutchins discloses a system that automatically collects event data of a numerically controlled machine tool. The identity, data, and time of the actual occurrence of an event are stored in nonvolatile memory.

U.S. Patent No. 5,400,345 to Ryan, Jr. discloses a control mode responsive to a communications bus. The control node comprises test logic for testing the node. The node processes a first class of messages related to predetermined functions and a second class of messages comprising signals for instructing the test logic to test the node.

U.S. Patent No. 5,230,049 to Chang et al. discloses a pre-compiler for a programming language. A language dependent portion of the compiler translates supplemental language statements into a language independent format. A language independent portion translates the supplemental language statements in the language into lists of tasks.

## II. FOREIGN PATENTS

No new foreign patent references.

## III. NON-PATENT LITERATURE REFERENCES

Stewart, Schmitz and Khosla's "Implementing Real-Time Robotic Systems Using CHIMERA II", published in 1990, discloses a software system for a motion control system employing a layered hardware platform. The software system provides a communications layer and kernel that hide the complexities of specific communications and hardware implementations.

"Intelligent Real-Time Control of Robotic Vehicles", by Payton, published August 1991, ACM.; discloses the concept of Intelligent Real Time Controllers (IRTC) and discusses an example of IRTC in the context of an Adaptive Suspension Vehicle.

Blasvaer and Pirjanian's "An Autonomous Mobile Robot System", published June 8, 1994, discloses a mobile autonomous robot device using a distributed navigation system. Chapter 4 of this reference discloses a software architecture of the navigation system that uses event based communications. Chapter 6, section 7, of this reference discloses a motion executor adapted to operate in a hardware independent fashion.

Paidy and Reeve's "Software Architecture for a Cell Controller", published in 1991, discloses a software architecture for facilitating the integration of manufacturing elements of a computer integrated manufacturing system. The software system

comprises a number of software modules that handle order manipulation, scheduling, manufacturing, and support. A data acquisition system collects and stores data related to the manufacturing system.

### CONCLUSION

The Applicant respectfully submits that these references, taken alone or in combination, neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to the pending application is respectfully requested. If there is any matter which could be expedited by consultation with the Applicant's attorney, such would be welcome. The Applicant's attorney can normally be reached at the telephone number below.

Signed at Bellingham, County of Whatcom, State of Washington, this 24<sup>th</sup> day of February, 2006.

Respectfully submitted,

BROWN ET AL.

By Michael R. Schacht  
Michael R. Schacht, Reg. No. 33,550  
Schacht Law Office, Inc.  
2801 Meridian Street, Suite 202  
Bellingham, WA 98225-2400  
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#### EXPRESS CERTIFICATE OF MAILING 37 CFR 1.10

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			Application Number	10/761,537	
			Filing Date	1/21/2004	
			First Named Inventor	David W. Brown	
			Group Art Unit	2188	
			Examiner Name		
			Attorney Docket Number	P214419	
Sheet	1	of	1		

[illegible][illegible]

Examiner Signature		Date Considered	
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1Unique citation designation number2See attached Kinds of U.S. Patent Documents3Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) 4For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible6Applicant is to place a check mark here if English language Translation is attached.

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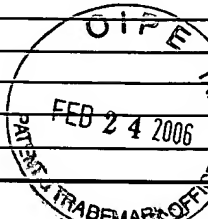
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		Filing Date	1/21/2004		
		First Named Inventor	David W. Brown		
		Group Art Unit	2188		
		Examiner Name			
Sheet	1	of	1	Attorney Docket Number	P214419



OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	1	STEWART, SCHMITZ, KHOSLA, "Implementing Real-Time Robotic Systems Using CHIMERA II", IEEE, 1990, PP.254-255, Sections 3.1 & 3.2	
	2	PAYTON et al., "Intelligent Real-Time Control of Robotic Vehicles", <u>Communications of the ACM</u> , 8/1/1991, Vol. 34, No. B, pp. 49-63	
	3	BLASVAER et al., "An Autonomous Mobile Robot System", 6/8/1994, Chapters 4, 6.7, Denmark	
	4	PAIDY & REEVE, "Software Architecture for a Cell Controller", <u>IEEE</u> , 1991, pp. 344-345	

Examiner Signature	Date Considered
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